

**IN THE CLAIMS:**

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please CANCEL claim 9, AMEND the claims and ADD claim 68 in accordance with the following:

1. (CURRENTLY AMENDED) A micro-relay comprising:  
a first substrate having stationary contacts and a stationary electrode;  
a second substrate arranged so as to face the first substrate; and  
a movable plate arranged between the first and second substrates,  
the movable plate having comprising a frame sandwiched between the first and second substrates to realize a hermetical sealed structure, and a movable portion and a plurality of elastically deformable members suspending the movable portion from the frame,  
~~the frame being sandwiched between the first and second substrates to realize a hermetical sealed structure,~~  
the movable portion having a movable electrode facing the stationary electrode, and a multiple movable contacts facing the stationary contacts,  
the movable portion moving between the first and second substrates due to electrostatic attraction that develops between the movable electrode and the stationary electrode,  
wherein the ~~movable portion has multiple movable contacts, and stationary contacts~~ have branch portions that are contactable to the multiple movable contacts.

2-4. (CANCELLED)

5. (CURRENTLY AMENDED) ~~A micro-relay comprising~~The micro relay according to claim 1:

~~a first substrate having stationary contacts and a stationary electrode;  
a second substrate arranged so as to face the first substrate; and  
a movable plate arranged between the first and second substrates,  
the movable plate having a frame and a movable portion,  
the frame being sandwiched between the first and second substrates to realize a~~

~~hermetical-sealed structure,~~

~~the movable portion having a movable electrode facing the stationary electrode, and a movable contact facing the stationary contacts,~~

~~the movable portion moving between the first and second substrates due to electrostatic attraction that develops between the movable electrode and the stationary electrode,~~

~~wherein the movable portion has multiple movable contacts, and the substrate has the stationary contacts that are contactable to the multiple movable contacts and are provided independently.~~

6. (CURRENTLY AMENDED) The micro-relay as claimed in ~~claim 1~~claim 68, wherein the first substrate has through holes via which interconnection lines extending from the first substrate are extracted to an outside of the micro-relay.

7. (CURRENTLY AMENDED) The micro-relay as claimed in ~~claim 1~~claim 68, wherein the first substrate has through holes via which interconnection lines extending from the movable plate are extracted to an outside of the micro-relay.

8. (CURRENTLY AMENDED) The micro-relay as claimed in ~~claim 1~~claim 68, wherein interconnection lines extending from the first substrate to an outside of the micro-relay are flush with a surface of the first substrate.

9. (CANCELLED)

10. (CURRENTLY AMENDED) The micro-relay as claimed in ~~claim 1~~claim 68, wherein ~~the movable portion is coupled to the frame by~~plurality of elastically deformable members are hinge springs.

11. (CURRENTLY AMENDED) The micro-relay as claimed in ~~claim 1~~claim 10, wherein ~~the movable portion is coupled to the frame by~~ hinge springs are arranged symmetrically.

12-14. (CANCELLED)

15. (CURRENTLY AMENDED) A micro-relay comprising:

a first substrate having stationary contacts and a stationary electrode;  
a second substrate arranged so as to face the first substrate; and  
a movable plate arranged between the first and second substrates,  
the movable plate having comprising a frame sandwiched between the first and second substrates to realize a hermetical sealed structure, and a movable portion and a plurality of elastically deformable members suspending the movable portion from the frame,  
~~the frame being sandwiched between the first and second substrates to realize a hermetical sealed structure,~~  
the movable portion having a movable electrode facing the stationary electrode, and a movable contact facing the stationary contacts,  
the movable portion moving between the first and second substrates due to electrostatic attraction that develops between the movable electrode and the stationary electrode,  
wherein at least one of the frame and the movable portion has a stopper that restricts in-plane movement of the movable portion.

16-17. (CANCELLED)

18. (CURRENTLY AMENDED) A micro-relay comprising:  
a first substrate having stationary contacts and a stationary electrode;  
a second substrate arranged so as to face the first substrate; and  
a movable plate arranged between the first and second substrates,  
the movable plate having comprising a frame sandwiched between the first and second substrates to realize a hermetical sealed structure, and a movable portion and a plurality of elastically deformable members suspending the movable portion from the frame,  
~~the frame being sandwiched between the first and second substrates to realize a hermetical sealed structure,~~  
the movable portion having a movable electrode facing the stationary electrode, and a movable contact facing the stationary contacts,  
the movable portion moving between the first and second substrates due to electrostatic attraction that develops between the movable electrode and the stationary electrode,  
wherein the movable portion has protrusions that prevent the movable portion from sticking to the first substrate.

19-21. (CANCELLED)

22. (CURRENTLY AMENDED) The micro-relay as claimed in ~~claim 1~~claim 68, wherein the second substrate has a flat plate shape.

23. (CANCELLED)

24. (CURRENTLY AMENDED) A micro-relay comprising:  
a first substrate having stationary contacts and a stationary electrode;  
a second substrate arranged so as to face the first substrate; and  
a movable plate arranged between the first and second substrates,  
the movable plate having comprising a frame sandwiched between the first and second substrates to realize a hermetical sealed structure, and a movable portion and a plurality of elastically deformable members suspending the movable portion from the frame,  
~~the frame being sandwiched between the first and second substrates to realize a hermetical sealed structure,~~  
the movable portion having a movable electrode facing the stationary electrode, and a movable contact facing the stationary contacts,  
the movable portion moving between the first and second substrates due to electrostatic attraction that develops between the movable electrode and the stationary electrode,  
wherein the second substrate has a stationary contact facing the movable contact.

25-26 CANCELLED)

27. (CURRENTLY AMENDED) A micro-relay comprising:  
a first substrate having stationary contacts and a stationary electrode;  
a second substrate arranged so as to face the first substrate; and  
a movable plate arranged between the first and second substrates,  
the movable plate having comprising a frame sandwiched between the first and second substrates to realize a hermetical sealed structure, and a movable portion and a plurality of elastically deformable members suspending the movable portion from the frame,  
~~the frame being sandwiched between the first and second substrates to realize a hermetical sealed structure,~~  
the movable portion having a movable electrode facing the stationary electrode, and a movable contact facing the stationary contacts,

the movable portion moving between the first and second substrates due to electrostatic attraction that develops between the movable electrode and the stationary electrode, wherein the second substrate has stationary electrodes that face the movable contact.

28-29. (CANCELLED)

30. (CURRENTLY AMENDED) A micro-relay comprising:

a first substrate having stationary contacts and a stationary electrode;

a second substrate arranged so as to face the first substrate; and

a movable plate arranged between the first and second substrates,

the movable plate having comprising a frame sandwiched between the first and second substrates to realize a hermetical sealed structure, and a movable portion and a plurality of elastically deformable members suspending the movable portion from the frame,

~~the frame being sandwiched between the first and second substrates to realize a hermetical sealed structure,~~

the movable portion having a movable electrode facing the stationary electrode, and a movable contact facing the stationary contacts,

the movable portion moving between the first and second substrates due to electrostatic attraction that develops between the movable electrode and the stationary electrode,

wherein the second substrate has a stationary electrode that faces the movable electrode, and a stationary contact that faces the movable contact.

31. (CURRENTLY AMENDED) A micro-relay comprising:

a first substrate having stationary contacts and a stationary electrode;

a second substrate arranged so as to face the first substrate; and

a movable plate arranged between the first and second substrates,

the movable plate having comprising a frame sandwiched between the first and second substrates to realize a hermetical sealed structure, and a movable portion and a plurality of elastically deformable members suspending the movable portion from the frame,

~~the frame being sandwiched between the first and second substrates to realize a hermetical sealed structure,~~

the movable portion having a movable electrode facing the stationary electrode, and a movable contact facing the stationary contacts,

the movable portion moving between the first and second substrates due to electrostatic

attraction that develops between the movable electrode and the stationary electrode,  
wherein:

the second substrate has a stationary electrode that faces the movable electrode,  
and a stationary contact that faces the movable contact; and

the movable contact is separated from the stationary contacts of the first and  
second substrates in the absence of electrostatic attraction.

32. (CURRENTLY AMENDED) A micro-relay comprising:

a first substrate having stationary contacts and a stationary electrode;

a second substrate arranged so as to face the first substrate; and

a movable plate arranged between the first and second substrates,

the movable plate having comprising a frame sandwiched between the first and second  
substrates to realize a hermetical sealed structure, and a movable portion and a plurality of  
elastically deformable members suspending the movable portion from the frame,

~~the frame being sandwiched between the first and second substrates to realize a  
hermetical sealed structure,~~

the movable portion having a movable electrode facing the stationary electrode, and a  
movable contact facing the stationary contacts,

the movable portion moving between the first and second substrates due to electrostatic  
attraction that develops between the movable electrode and the stationary electrode,

wherein:

the second substrate has a stationary electrode that faces the movable electrode,  
and a stationary contact that faces the movable contact;

the movable contact is separated from the stationary contacts of the first and  
second substrates in the absence of electrostatic attraction; and

the movable contact is brought into contact with the stationary electrode of the  
second substrate or the stationary contacts of the first substrate due to electrostatic  
attraction.

33. (CURRENTLY AMENDED) A micro-relay comprising:

a first substrate having stationary contacts and a stationary electrode;

a second substrate arranged so as to face the first substrate; and

a movable plate arranged between the first and second substrates,

the movable plate having comprising a frame sandwiched between the first and second

substrates to realize a hermetical sealed structure, and a movable portion and a plurality of elastically deformable members suspending the movable portion from the frame,

~~the frame being sandwiched between the first and second substrates to realize a hermetical sealed structure,~~

the movable portion having a movable electrode facing the stationary electrode, and a movable contact facing the stationary contacts,

the movable portion moving between the first and second substrates due to electrostatic attraction that develops between the movable electrode and the stationary electrode,

wherein:

the second substrate has a stationary electrode that faces the movable electrode, and stationary contacts that face the movable contact; and

the movable contact is separated from the stationary contacts of the first and second substrates in the absence of electrostatic attraction.

34. (CURRENTLY AMENDED) A micro-relay comprising:

a first substrate having stationary contacts and a stationary electrode;

a second substrate arranged so as to face the first substrate and having stationary contacts; and

a movable plate arranged between the first and second substrates,

the movable plate ~~having comprising a frame sandwiched between the first and second substrates to realize a hermetical sealed structure, and a movable portion and a plurality of elastically deformable members suspending the movable portion from the frame,~~

~~the frame being sandwiched between the first and second substrates to realize a hermetical sealed structure,~~

the movable portion having a movable electrode facing the stationary electrode, and a movable contact facing the stationary contacts,

the movable portion moving between the first and second substrates due to electrostatic attraction that develops between the movable electrode and the stationary electrode,

wherein the stationary contacts of the first substrate are for use in signal transmission, and the stationary contacts of the second substrate are for use in signal transmission.

35. (CURRENTLY AMENDED) A micro-relay comprising:

a first substrate having stationary contacts and a stationary electrode;

a second substrate arranged so as to face the first substrate; and

a movable plate arranged between the first and second substrates,  
the movable plate having comprising a frame sandwiched between the first and second substrates to realize a hermetical sealed structure, and a movable portion and a plurality of elastically deformable members suspending the movable portion from the frame,

~~the frame being sandwiched between the first and second substrates to realize a hermetical sealed structure,~~

the movable portion having a movable electrode facing the stationary electrode, and a movable contact facing the stationary contacts,

the movable portion moving between the first and second substrates due to electrostatic attraction that develops between the movable electrode and the stationary electrode,

wherein the second substrate has a stationary electrode, and an interconnection line extending from the stationary electrode of the second substrate is extracted to an outside of the micro-relay via a through hole formed in the second substrate.

36. (CURRENTLY AMENDED) A micro-relay comprising:

a first substrate having stationary contacts and a stationary electrode;

a second substrate arranged so as to face the first substrate; and

a movable plate arranged between the first and second substrates,

the movable plate having comprising a frame sandwiched between the first and second substrates to realize a hermetical sealed structure, and a movable portion and a plurality of elastically deformable members suspending the movable portion from the frame,

~~the frame being sandwiched between the first and second substrates to realize a hermetical sealed structure,~~

the movable portion having a movable electrode facing the stationary electrode, and a movable contact facing the stationary contacts,

the movable portion moving between the first and second substrates due to electrostatic attraction that develops between the movable electrode and the stationary electrode,

wherein the second substrate has a stationary contact facing the movable contact, and

wherein an interconnection line extending from the stationary contact is extracted to an outside of the second substrate via a through hole formed in the second substrate.

37. (CURRENTLY AMENDED) A micro-relay comprising:

a first substrate having stationary contacts and a stationary electrode;

a second substrate arranged so as to face the first substrate; and



a movable plate arranged between the first and second substrates,  
the movable plate having comprising a frame sandwiched between the first and second substrates to realize a hermetical sealed structure, and a movable portion and a plurality of elastically deformable members suspending the movable portion from the frame,  
~~the frame being sandwiched between the first and second substrates to realize a hermetical sealed structure,~~  
the movable portion having a movable electrode facing the stationary electrode, and a movable contact facing the stationary contacts,  
the movable portion moving between the first and second substrates due to electrostatic attraction that develops between the movable electrode and the stationary electrode,  
wherein the second substrate has a stationary contact facing the movable contact, and the movable plate has protrusions that prevent the movable portion from sticking to the second substrate.

38. (CURRENTLY AMENDED) A micro-relay comprising:  
a first substrate having stationary contacts and a stationary electrode;  
a second substrate arranged so as to face the first substrate; and  
a movable plate arranged between the first and second substrates,  
the movable plate having comprising a frame sandwiched between the first and second substrates to realize a hermetical sealed structure, and a movable portion and a plurality of elastically deformable members suspending the movable portion from the frame,  
~~the frame being sandwiched between the first and second substrates to realize a hermetical sealed structure,~~  
the movable portion having a movable electrode facing the stationary electrode, and a movable contact facing the stationary contacts,  
the movable portion moving between the first and second substrates due to electrostatic attraction that develops between the movable electrode and the stationary electrode,  
wherein the second substrate has a stationary contact facing the movable contact, and the movable plate has protrusions that prevent the movable portion from sticking to the first and second substrates.

39. (CANCELLED)

40. (CURRENTLY AMENDED) The micro-relay as claimed in ~~claim 4~~claim 68,

wherein the frame has a thickness that defines spaces between the movable plate and the first stationary contact and between the movable plate and the second stationary contact.

41-42. (CANCELLED)

43. (CURRENTLY AMENDED) A micro-relay comprising:

a first substrate having stationary contacts and a stationary electrode;

a second substrate arranged so as to face the first substrate;

a movable plate arranged between the first and second substrates; and

~~a base substrate that supports the first substrate;~~

~~members that connect the movable electrode and the stationary electrode to pads formed on the base substrate; and~~

~~resin that covers the first and second substrates and the movable plate,~~

the movable plate having a frame and a movable portion,

the frame being sandwiched between the first and second substrates to realize a hermetical sealed structure,

the movable portion having a movable electrode facing the stationary electrode, and a movable contact facing the stationary contacts, and

the movable portion moving between the first and second substrates due to electrostatic attraction that develops between the movable electrode and the stationary electrode;

a base substrate that supports the first substrate;

members that connect the movable electrode and the stationary electrode to pads formed on the base substrate; and

resin that covers the first and second substrates and the movable plate.

44. (PREVIOUSLY PRESENTED) A micro-relay comprising:

a first substrate having stationary contacts and a stationary electrode;

a second substrate arranged so as to face the first substrate; and

a movable plate arranged between the first and second substrates,

the movable plate having a frame and a movable portion,

the frame being sandwiched between the first and second substrates to realize a hermetical sealed structure,

the movable portion having a movable electrode facing the stationary electrode, and a

movable contact facing the stationary contacts,

the movable portion moving between the first and second substrates due to electrostatic attraction that develops between the movable electrode and the stationary electrode,

wherein the frame has a protrusion and the movable portion has a counterpart recess.

45. (CANCELLED)

46. (PREVIOUSLY PRESENTED) A micro-relay comprising:

a first substrate having stationary contacts and a stationary electrode;

a second substrate arranged so as to face the first substrate; and

a movable plate arranged between the first and second substrates,

the movable plate having a frame and a movable portion,

the frame being sandwiched between the first and second substrates to realize a hermetical sealed structure,

the movable portion having a movable electrode facing the stationary electrode, and a movable contact facing the stationary contacts,

the movable portion moving between the first and second substrates due to electrostatic attraction that develops between the movable electrode and the stationary electrode,

wherein the movable portion and the frame have an identical thickness.

47-67. (CANCELLED)

68. (NEW) A micro-relay comprising:

a first substrate having a contact as a stationary contact and an electrode as a stationary electrode;

a second substrate facing the first substrate; and

a movable plate arranged between the first and second substrates,

the movable plate including:

a frame sandwiched between the first and second substrates forming a hermetical sealed structure,

a portion having an electrode as a movable electrode facing the stationary electrode, and a contact as a movable contact facing the stationary contact, and

a plurality of elastically deformable members suspending the portion from the frame.